







ISO/IEC17025 Accredited Lab.

Report No: FCC 0902016-02 File reference No: 2009-04-08

Applicant: Dongguan Tangxia USmart Electronic Products Limited

Product: Laptop Computer

Model No: LB-1017

Trademark: N/A

Test Standards: FCC Part 15 Subpart B: 2008

Test result:

It is herewith confirmed and found to comply with the requirements

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: April 08,2009

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC-Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant: Dongguan Tangxia USmart Electronic Products Limited

Address: No.12,Lu Yi 2 Road, Tang Xia Town,Dongguan City,Guang Dong Prov.,China

Telephone: +86-769-87911890 Fax: +86-769-87915263

1.3 Description of EUT

Product: Laptop Computer

Manufacturer: Dongguan Tangxia USmart Electronic Products Limited

Brand Name: N/A
Model Number: LB-1017

Additional Model Number: LB-1017XX,(XXIndicate the different shell colors and with different

clients)

Rating: Input: DC 19V,57W

The adapter Model No.: ADP193-32, (Made by Huntkey)

Rating: Input: 100-240V, 1.5A Max, 50/60Hz Output: 19V, 3.42A

The adapter Model No.: YJS05-1903000D (Made by SWITCHING)

Rating: Input: 100-240V, 1.5A Max, 47-63Hz Output: 19V, 3A

1.4 Submitted Sample: 1 Sample

1.5 Test Duration: 2009-02-23 to 2009-04-08

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Teny Tany

The sample tested by

Print Name: Terry Tong

The report refers only to the sample tested and does not apply to the bulk.

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8134	8134109	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8136	8136102	SCHWARZBECK	2009.2.24	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with					
Tracking Generator)	MS2661C	MT72089	ANRITSU	2009.2.23	1Year
Amplifier	MH648A	M20494	ANRITSU	2009.2.24	1Year
Bilog Antenna	CBL6101C	2576	CHASE	2009.2.23	1Year

2.3 Auxiliary Equipment

		1	ı	1	
Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
- 1011110				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	6331-4CN	23-DNWX3	IBM	Mains cable	FCC ID
				Data cable of	
Mouse	OM860XC	HM0509	BIGCOW	1.5m length	FCC DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	FP51G	ET47604175CLO	BENQ	Mains cable	FCC DOC
External hard				Data cable of	
disk	SHE046	D090300112053	SSK	1.0m length	FCC DOC

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3.0 **Technical Details**

3.1 Investigations Requested Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

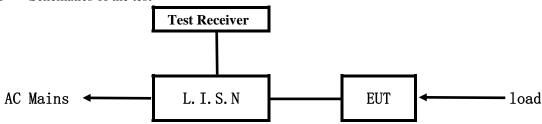
FCC Part 15 Subpart B: 2008

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4.0 Conducted Power line Test

4.1 Schematics of the test



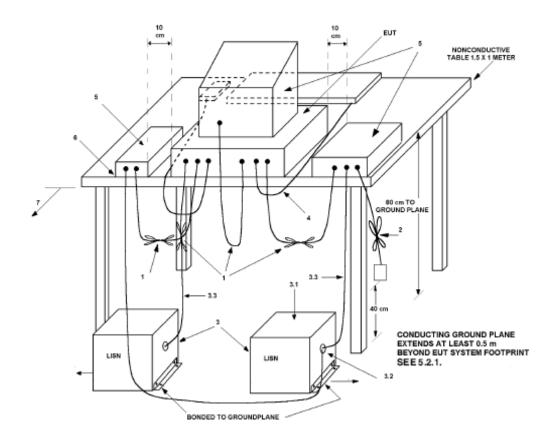
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Eraguanay (MHz)	Class A Limits dB(μV)		Class B Lin	nits dB(µV)
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*
$0.50 \sim 5.00$	73.00 60.00		56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

Notes: 1. *decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

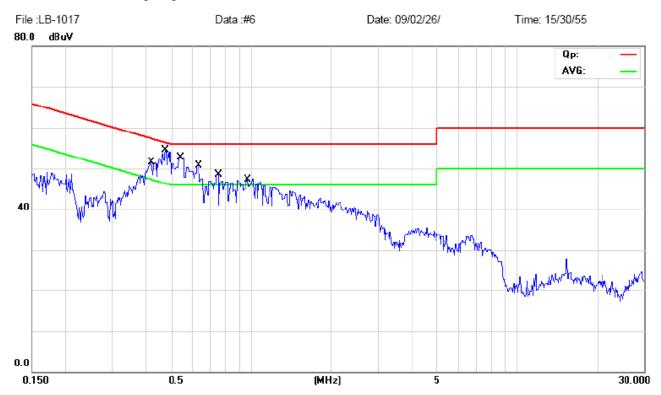
EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

wireless network

Adaptor used for test Model No.: ADP193-32

Results: Pass

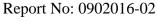
Please refer to following diagram for individual



F		Reading	Limi	t		
Frequency (MHz)	Line		Neutral		$(dB \mu V)$	
(MITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4194	54.69	34.99			57.46	47.46
0.4761	39.55	24.85			56.41	46.41
0.5410	45.01	30.31			56.00	46.00
0.6290	41.61	27.41			56.00	46.00
0.7495	40.53	23.93			56.00	46.00
0.9750	40.37	28.27			56.00	46.00

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B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

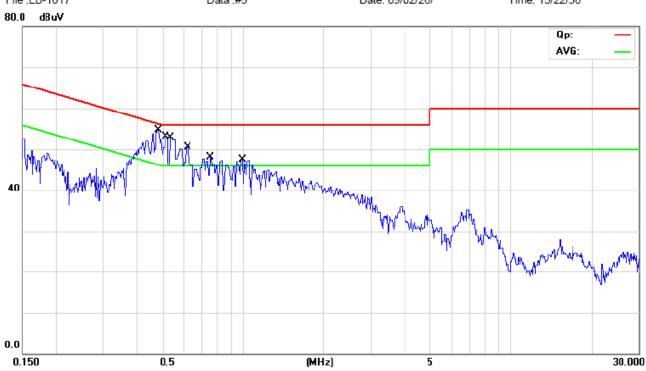
wireless network

Adaptor used for test Model No.: ADP193-32

Results: Pass

Please refer to following diagram for individual

File :LB-1017 Data :#5 Date: 09/02/26/ Time: 15/22/38



Eraguanav		Reading	Limi	t		
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4790			40.05	24.35	56.36	46.36
0.5130			42.88	27.08	56.00	46.00
0.5321		-	44.60	28.20	56.00	46.00
0.6163			41.49	25.99	56.00	46.00
0.7466		-	40.33	24.03	56.00	46.00
0.9996			25.70	23.30	56.00	46.00

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Date: 2009-04-08

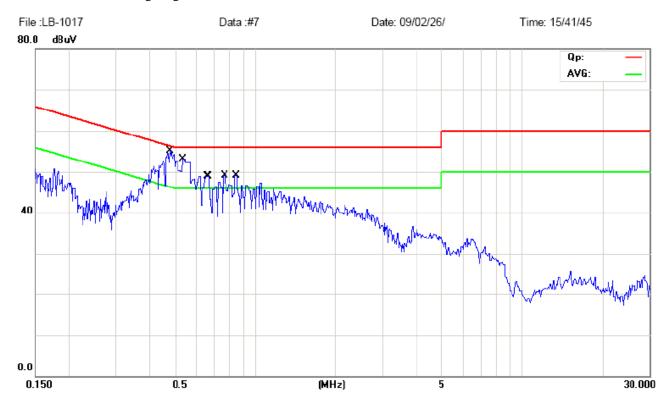
Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Running notebook test program and Ping network

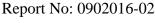
Adaptor used for test Model No.: ADP193-32

Results: Pass

Please refer to following diagram for individual



E		Reading	Limi	t		
Frequency (MHz)	Line		Neutral		$(dB \mu V)$	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4780	50.25	24.85			56.37	46.37
0.5342	44.91	28.61			56.00	46.00
0.6673	40.25	22.75			56.00	46.00
0.7696	41.76	28.66			56.00	46.00
0.8441	41.53	28.33			56.00	46.00
0.8387	41.33	28.93			56.00	46.00



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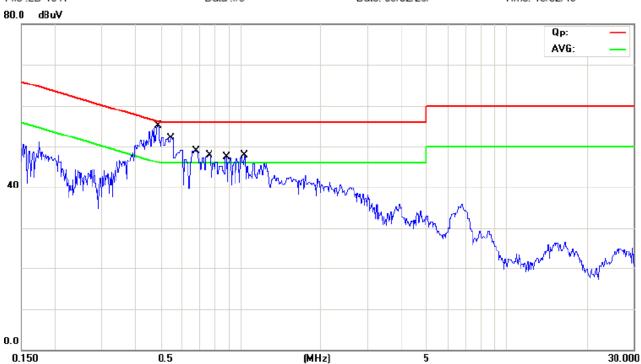
EUT set Condition: Running notebook test program and Ping network

Adaptor used for test Model No.: ADP193-32

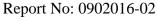
Results: Pass

Please refer to following diagram for individual

File :LB-1017 Data :#8 Date: 09/02/26/ Time: 15/52/49



Eraguanav		Reading	Limi	t		
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4874			40.36	29.06	56.21	46.21
0.5395			45.11	29.91	56.00	46.00
0.6811			39.86	23.26	56.00	46.00
0.7564			40.94	24.44	56.00	46.00
0.8805			39.47	22.87	56.00	46.00
1.0353			40.41	26.81	56.00	46.00



Date: 2009-04-08



Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

wireless network

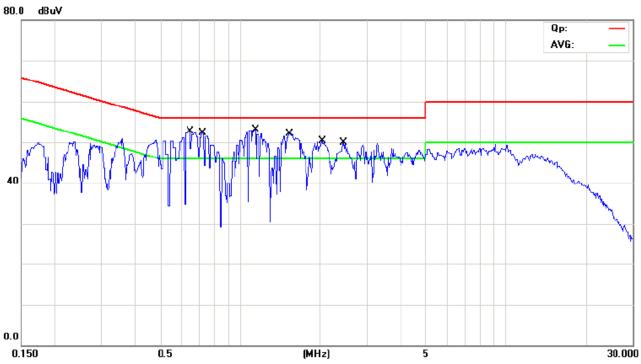
Adaptor used for test Model No.: YJS05-1903000D

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

File :LB-1017 Data :#9 Date: 09/04/03/ Time: 9/46/43

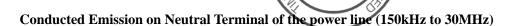


Enaguanav		Reading	Limi	t		
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.6448			42.82	37.42	56.00	46.00
0.7200			48.90	34.60	56.00	46.00
1.1325			52.35	30.65	56.00	46.00
1.5471			50.12	33.12	56.00	46.00
2.0232			48.21	33.51	56.00	46.00
2.4403			47.18	33.78	56.00	46.00

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EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

wireless network

Adaptor used for test Model No.: YJS05-1903000D

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

Engguenav		Reading	Limi	t		
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4698	49.44	36.04			56.52	46.52
0.6400	50.29	33.32			56.00	46.00
1.1257	51.85	35.75			56.00	46.00
1.5496	51.92	32.42			56.00	46.00
2.0270	49.01	33.21			56.00	46.00
2.4448	47.78	28.38			56.00	46.00

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0.150

EUT set Condition: Running notebook test program and Ping network

Adaptor used for test Model No.: YJS05-1903000D

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

File :LB-1017 Data :#12 Date: 09/04/03/ Time: 10/06/46

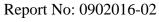
80.0 dBuV

Qp:
AV6:

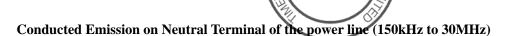
0.0

E		Reading	Limi	t		
Frequency (MHz)	Live	;	Neutral		$(dB \mu V)$	
(MITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.5160			50.79	33.59	56.00	46.00
0.6503			54.23	34.03	56.00	46.00
1.0261			53.11	40.81	56.00	46.00
1.1278			53.05	31.95	56.00	46.00
1.4842			51.19	31.09	56.00	46.00
1.8920			48.16	28.26	56.00	46.00

(MHz)



Date: 2009-04-08



EUT set Condition: Running notebook test program and Ping network

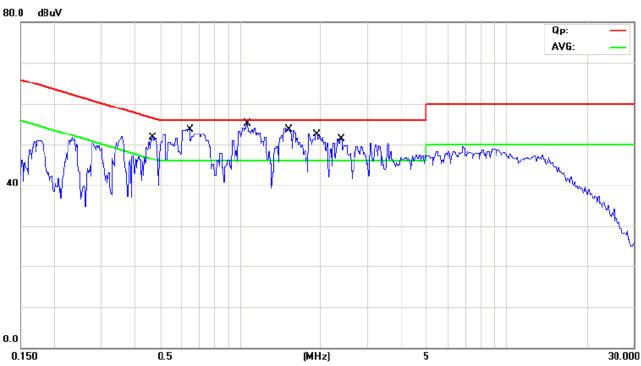
Adaptor used for test Model No.: YJS05-1903000D

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

File :LB-1017 Data :#11 Date: 09/04/03/ Time: 10/01/22



Eraguanay	Reading(dB µ V)				Limit	
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.6385	52.52	41.02			56.00	46.00
1.0616	53.02	41.22			56.00	46.00
1.5251	53.31	35.01			56.00	46.00
1.9421	51.58	38.58			56.00	46.00
2.3706	49.55	39.84			56.00	46.00
0.4733	51.84	33.34			56.00	46.00

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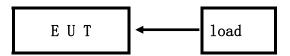
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

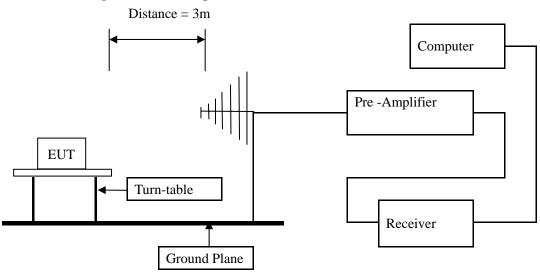


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

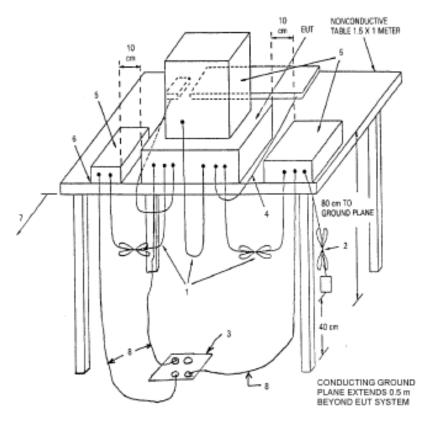
Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



Date: 2009-04-08





5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters. For the test data and plots above 1G, please refer to page 30-35 and page 40-45 of test report 0902016.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

wireless network

Model No.: ADP193-32 Adaptor used for test

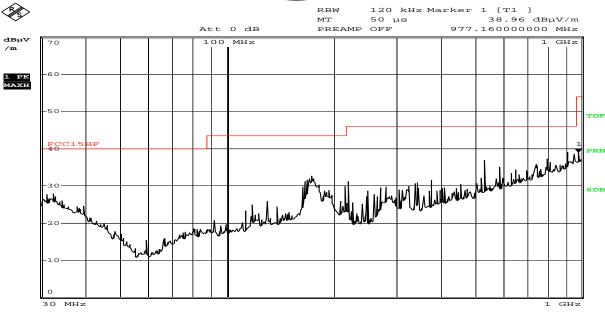
Working Voltage: 120V~ 60Hz

Results: PASS

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
172.88	32.41	Н	43.50
912.00	39.03	Н	46.00
977.16	39.10	Н	46.00
130.00	30.78	V	43.50
651.23	40.02	V	46.00
977.15	40.60	V	46.00

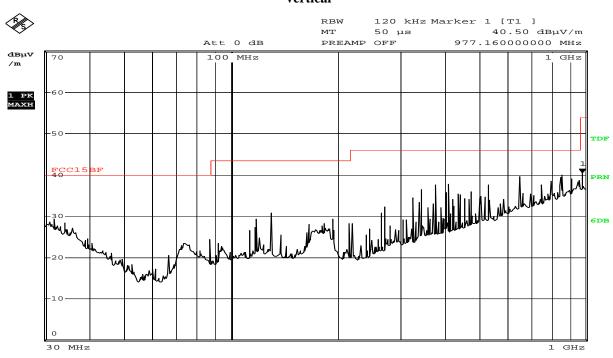
Date: 2009-04-08





Comment: 12v 7AH -V charging Date: 26.FEB.2009 10:26:42

Vertical



Comment: 12v 7AH -V charging Date: 26.FEB.2009 10:25:45

The report refers only to the sample tested and does not apply to the bulk.

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Date: 2009-04-08



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Running notebook test program and Ping network

Adaptor used for test Model No.: ADP193-32

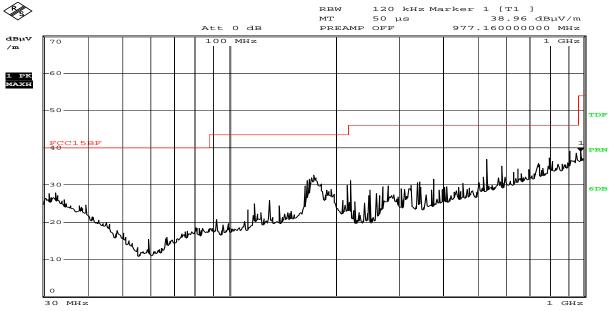
Working Voltage: 120V~ 60Hz

Results: PASS

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
173.10	33.74	Н	43.50
531.88	37.67	Н	46.00
798.04	39.51	Н	46.00
117.62	31.43	V	43.50
532.02	38.76	V	43.50
173.10	42.12	V	46.00

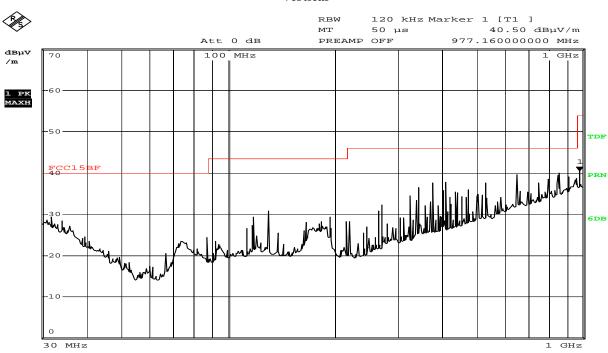
Date: 2009-04-08





Comment: 12v 7AH -V charging 26.FEB.2009 10:26:42

Vertical



Comment: 12v 7AH -V charging Date: 26.FEB.2009 10:2 10:25:45 Date:

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

wireless network

Model No.: YJS05-1903000D Adaptor used for test

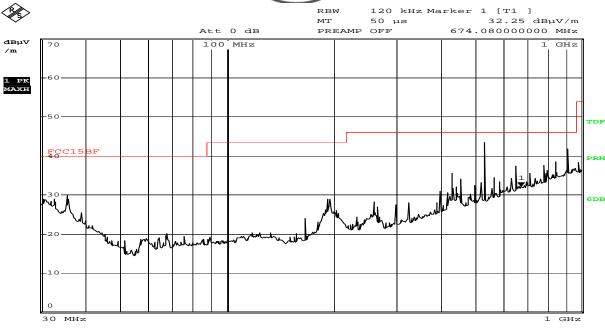
Working Voltage: 120V~ 60Hz

Results: PASS

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
531.96	44.4	Н	46.00
912.04	42.8	Н	46.00
36.08	36.8	V	40.00
432.24	39.8	V	46.00
532.00	41.3	V	46.00

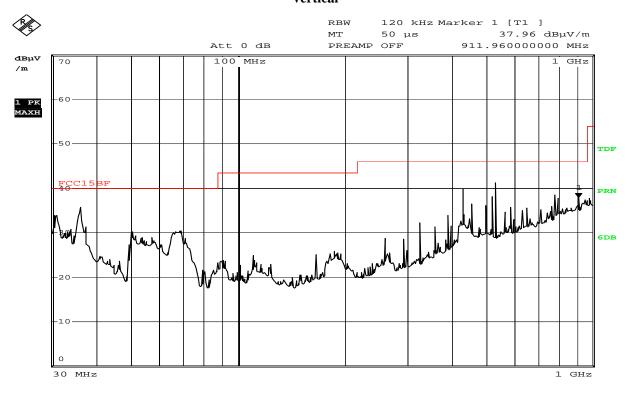
Date: 2009-04-08





Date: 3.APR.2009 10:43:40

Vertical



Date: 3.APR.2009 10:46:42

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Running notebook test program and Ping network

Adaptor used for test Model No.: YJS05-1903000D

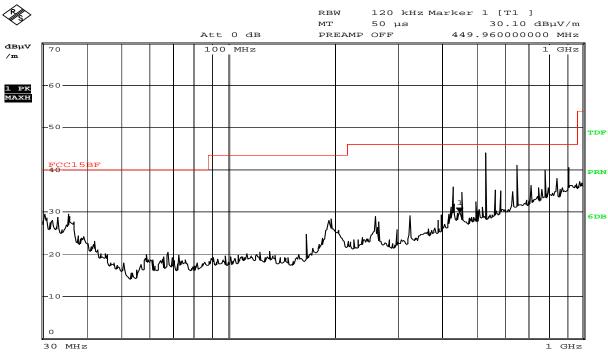
Working Voltage: 120V~ 60Hz

Results: PASS

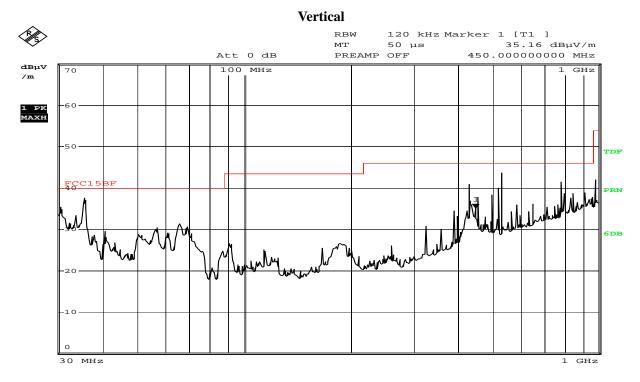
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
532.00	45.1	Н	46.00
651.44	42.2	Н	46.00
912.00	40.6	Н	46.00
35.52	37.64	V	40.00
432.20	42.8	V	46.00
532.00	44.6	V	46.00
781.72	41.4	V	46.00

Date: 2009-04-08





Date: 3.APR.2009 10:40:46



Date: 3.APR.2009 10:38:49

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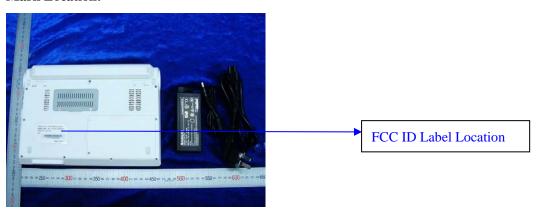
6.0 FCC ID Label

FCC ID: W7TUS

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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Conducted test View--7.1



AC Mains



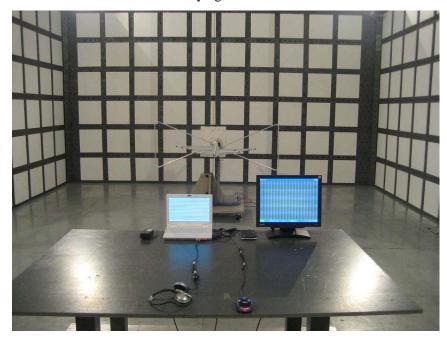
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7.2 Radiated emission test view--







-End of the report-

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